

Serial No. 10/573,109
Amdt. dated February 25, 2009
Reply to Office Action of November 28, 2008

PATENT
PU030052
Customer No. 24498

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IN THE CLAIMS:

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This listing of claims will replace all prior versions and listings of claims in the application.

1. (original) A method for controlling Quality of Service (QoS) levels/service levels within a wired network associated with wireless Local Area Network (LAN), the wired network having different paths for carrying information frames received from at least one mobile terminal user, comprising the steps of:

receiving in the network at least one frame of information;
determining a QoS level/service level for the received frame;
associating with the received frame an identifier that identifies a path through the network having a transmission capability sufficient to provide the determined QoS level/service level; and
routing the frame in the network in accordance with the associated identifier.

2. (original) The method according to claim 1 wherein the QoS level/service level is determined from the identity of the mobile terminal user that originated the frame.

3. (original) The method according to claim 1 wherein the QoS level/service level is determined in accordance with a QoS level/service level request received from the mobile terminal user.

4. (original) The method according to claim 1 wherein the step of receiving the information frame comprises the step of receiving an IP packet in an Ethernet Frame.

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5. (original) The method according to claim 4 wherein the step of associating the identifier with the received frame comprises the step of associating a Virtual Local Area Network (VLAN) number with the frame.

6. (original) The method according to claim 1 wherein the step of routing the frame comprises the step of routing the frame to one of a plurality of separate destinations.

7. (original) The method according to claim 1 wherein the step of routing the frame comprises the step of routing the frame to one destination across a selected one of a plurality of interfaces.

8. (original) A wireless Local Area Network (LAN) for routing received information frames, comprising:

at least one Access Point for receiving radio traffic from at least one mobile terminal and for communicating such traffic in the form of at least one information frame;

an administrative gateway for establishing a Quality of Service level/service level for the one information frame and for instructing the Access Point to assign an identifier to the frame in accordance with the QoS level/service level established for the frame; and

a switch for routing the frame to a destination selected in accordance with the assigned identifier.

9. (original) The wireless LAN according to claim 8 wherein the switch comprises a Virtual Local Area Network (VLAN) capable Ethernet switch and wherein the identifier assigned to the frame comprises a VLAN number.

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10. (original) The wireless LAN according to claim 8 further including a plurality of routing gateways, each comprising a destination for the frame routed by the switch in accordance with the identifier assigned to the frame.

11. (original) The wireless LAN according to claim 8 further including a routing gateway, having a plurality of interfaces, each interface providing a path for carrying a frame routed by the switch in accordance with the identifier assigned to the frame.